PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Container No	Status	Receive Date	Price/Unit	Agi Da
O040082	ACI001-VC	1	1		M1018R4.250	1018-1025 Round Bar MATERIAL: AISI 1018- 1025 ROUND BAR SPECIFICATION: MII-S- 7097 OR ASTM A108				4	6/8/2018	4		S079411	Stock	6/8/2018	\$ 142.50 / ft	
		2		May 10	75tm	1010-1025 Steel Bar .750 X .750 : MATERIAL; AISI 1010-1025 OR ASTM A36I/A366I/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft				12		12		\$079412	Stock	6/8/2018	\$ 2 96 / ft	
		3			Astur (1010-1025 Steel Bar .500 K .500 : MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft						12		\$079413	Stock	6/8/2018	\$ 1.32/ft	
		4		4305006	45 m	Tool Steel Bar 0.250"" X 3.000"" MATERIAL: AISI 01 TOOL STEEL BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681				3		12		5079414	Stock	6/8/2018	\$ 116 00/ft	
									Total:	31		40						_

Plex 6/8/2018 1:52 PM Dart.Dubois.Pascal



Billed to

DART AEROSPACE LTD

HAWKESBURY, Ontario, K6A 1K7

1270, ABERDEEN ST.

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Shipped to

, Ontario,

Date Customer N° CLI0001056 2018/06/01

Delivery date 2018/06/07

Your order No 40082

Salesman

Processed by Eric Kaehlert

OUELLETTE VALLEYFIELD

Carrier

Credit Terme Net 30 Days

Att : CHANTAL LAVOIE Tél.: 613-632-5200

		T	\						-					1	
Instruction F-M	Product Description	· · · · · · · · · · · · · · · · · · ·	1 ROUND CR 4 1/4 1018 NS	RCR-414 10976	1 × 4'	124	LINE#1	10160E1 CB 2010 06 06	Heat: 8171649	2 SQUARE CR 3/4 1018 (R)	CCR-34 1826	1 X 12' RL	LINE#2	Heat: 400805	
D									0						
Delivery Route	Waight	Media	192.92							22.92					
UI	Ot.	Ar.A	4.00							12.00					
		0/19	PI							PI_\$CLB					
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	Internal Use Only	I								400					
	al Us	SC					2						_		
	e Only	OUT					PLOZ B D NOF	DAS	-	88-8			UN 0 8 2018	DAS	 9-89

NIR: R-109516-6



Billed to

DART AEROSPACE L'TD

Shipped to

, Ontario,

1270 , ABERDEEN ST. HAWKESBURY, Ontario, K6A 1K7

Instruction

T-X

Date

2018/06/01 CLI0001056

2018/06/07

Customer N°

Delivery date

ACIER OUELLETTE INC.
935, Boul. du Hâvre
935, Boul. du Hâvre
Salaberry de Valleyfield (Québec) J6S 5L1
Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248
Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Your order No 40082

Processed by Eric Kaehlert

Salesman

Carrier OUELLETTE VALLEYFIELD

Page **Credit Terme** Net 30 Days

Att : CHANTAL LAVOIE Tél.: 613-632-5200

Product Description Weight Qty U/M CMD EXP B/O IN I S C OUT	Instruction F-M	Delivery Route	Л		Page	æ		2				
10.20 12.00 PL SCIB Y	Product Description	Weight	Ofw	M/II		PCS N	B		Interna	Use C	Only	
10.20 PL \$CLB				0/17	CMD	EXP	В/0	NI	S	0		UT
30.60 12.00 PI 47 2 JUN 0 8 2018 3. 12 JUN 0 8 2018	CCR-12	10.20	12.00	PI_\$CLB								
30.60 12.00 PI 12 III 12 JUN 0 8 2018 3 1 2 JUN 0 8 2018	0/					7		5				
30.60 12.00 PI W	1 × 12 × RL					=		1	_	<u>-</u> = 	2018	DAS
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12 JUN 0 8 2018	4 FLAT GRD STOCK 01 1/4 X 3 NS F01-143 10167	30.60	12.00	PI	The state of the s		Manager Party	and the second s				The state of the s
28-04-06 23-1 ZUN 0 8 Z018	4 X 3'				,,,	8		Š				
18-04-06	LINE#4					(D) =		7	U_	8 0 8	2018	
9-69	AC16948-VA-2018-04-06 Heat: Typique											DAS 11
												9-89

NIR: R-109516-6

0	ì
0	1
15	10
No.	

DELIVERY - CLIENT

CO00092875

All sold and delivered materials remain the property of "Acier Ouellette Inc" until payment is made in full, complete and cashed. All lost materials are at the buyer's expense. The warranty offered by "Acier Ouellette Inc." is the same as offered and honored by the manufacturer and his warranty is transferred by "Acier Quellette Inc." to the client. The buyer hereby accepts to respect the following conditions: Net 30 days from billing date and the buyer accepts to pay administration charges of 2% per month (24% per annum) on all past due amounts over 30 days. Any default in respect with this contract will lead to payment by acceleration and permits to the seller, at his choice to claim for the balance due or the repossession of the goods sold. All claims must be made within five (5) days with this document enclosed. Any merchandise that has been damaged, cut or modified cannot be returned. All goods returned must be with our authorization and are subject to Conditions: b. Billed to HAWKESBURY, Ontario, K6A 1K7 1270, ABERDEEN ST. DART AEROSPACE LTD Instruction **Product Description** Shipped to **Delivery Route** ACIER OUELLETTE INC. Att : CHANTAL LAVOIE Tél.: 613-632-5200 , Ontario, Salaberry de Valleyfield (Québec) J6S 5L1 935, Boul. du Hâvre Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242 Tél.: 450-377-4248 Mti: 514-336-4248 Ext.: 800-667-4248 Total Weight (Lbs): 256.64 Weight G Ath U/M NIR: R-109516-6 CMD Page **Credit Terme** Salesman Carrier Delivery date Date Processed by Your order No Customer N° EXP PCS NB B/0 Net 30 Days Z OUELLETTE VALLEYFIELD Eric Kaehlert 40082 CLI0001056 2018/06/07 2018/06/01 Internal Use Only S 00:00 0 TUO

Prepared By :

Verified By :

Time

Total (\$CAD)

Customer's Signature



Dart Aerospace Ltd. 1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada

PURCHASE ORDER PO040082

Tel (613) 632-5200

Supplier:

Ship To:

ACI001-VC

Acier Ouellette Inc. 935 Boul. Du Havre

Valleyfield

Hawkesbury

K6A 1K7 Canada Phone: 613-632-5200

ON

QC

J6S 5L1 Canada Phone: 800 667 4248 Fax: 450 377 5696

1270 Aberdeen Street

PO No:

PO040082

PO Date: Due Date: 6/1/18 6/8/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact:

Phone:

Via:

Ground

Pymt Terms:

Net 30

Freight Terms:

Special Comments: quote no. sou0110129

				Items							
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price	
1	M1018R4.250		1018-1025 Round Bar MATERIAL: AISI 1018- 1025 ROUND BAR SPECIFICATION: MII-S- 7097 OR ASTM A108	Firmed	6/8/18	4 ft	41			To the second se	DAS 11 9-89
2	M1018B0.750X0.750		1010-1025 Steel Bar .750 X .750 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	6/8/18	12 ft	12	12 ft	\$2.9608333/h		DAS 11 9-89
3	M1018B0.500X0.500		1010-1025 Steel Bar .500 X .500 : MATERIAL: AISI 1010- 1025 OR ASTM A36/A366/A569/A570 OR OR CSA G40-21 38W/44W/50W/60W/70W CSA G40-21 OR 38W/44W/50W/60W/70W receive ft	Firmed	6/8/18	12 ft	12	12 ft	\$1.3175/ft. JUN 0 8 20		DAS 11 9-86
	MT-O1-B- 0.250X3.000	Ĭ	Tool Steel Bar 0.250" X 3,000" MATERIAL: AISI 01 TOOL STEEL BAR DIN 1.2510 or B.S. BO 1 or SAE J437 or SAE J438 or UNS T31501 or ASTM A681	Firmed	6/8/18	3 ft	17	3 ft	\$116.00/ft JUN () 8 2	\$348.00 018	D/ 1 9-
			0-0	ler Notes				1	Grand Total:	\$969.34	

Plex 6/1/18 12:38 PM dart.lavoie.chanta

DAS

9-89

Order Notes

Procurement Quality Clauses

A005 right of entry

A012 chemical and physical test report

A016 personnel qualification

A017 raw material identification (as applicable)

A026 certification of material conformance

A041 quality management system

A042 dart notification by supplier

A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 6/1/18 12:38 PM dart.lavoie.chantal



ACIER OUELLETTE INC.

935, Boul. du Hâvre

Salaberry de Valleyfield (Québec) J6S 5L1

Tél.: 450-377-4248 Mtl: 514-336-4248 Ext.: 800-667-4248 Fax: 450-377-5696 Mtl: 514-336-4246 Ext.: 866-456-4242

Quotation

SOU0110129

Customer N°

CLI0001056

Date

2018/05/29

Revision N°

0

Prices valid until

2018/06/05

Your Order No

Processed by

Denis Quenneville

Salesman

DENIS

Carrier

OUELLE SDV

Credit Terms

Net 30 Days

		Page			1			
Weight	Qty	U/M	Qty	U/M	Price	Pcs Nh	Price	Amar
0.00	1.00	UN				4.00	142.500	570.00
22.92	12.00	PI_\$CLB	12.00	PI		12.00	2.960	35.53
10.20	12.00	PI_\$CLB	12.00	PI	1.32			15.81
0.00	4.00	UN	4.00	UN	87.00			348.00
		\$						3.95
	22.92	Weight Qty 0.00 1.00 22.92 12.00 10.20 12.00	0.00 1.00 UN 22.92 12.00 PI_\$CLB 10.20 12.00 PI_\$CLB	Weight Qty U/M Qty 0.00 1.00 UN 1.00 22.92 12.00 PI_\$CLB 12.00 10.20 12.00 PI_\$CLB 12.00 0.00 4.00 UN 4.00	Weight Qty U/M Qty U/M 0.00 1.00 UN 1.00 UN 22.92 12.00 PI_\$CLB 12.00 PI 10.20 12.00 PI_\$CLB 12.00 PI 0.00 4.00 UN 4.00 UN	Weight Qty U/M Qty U/M Price 0.00 1.00 UN 1.00 UN 22.92 12.00 PI_\$CLB 12.00 PI 10.20 12.00 PI_\$CLB 12.00 PI 1.32 0.00 4.00 UN 4.00 UN 87.00	Weight Qty U/M Qty U/M Price Pcs Nb 0.00 1.00 UN 1.00 UN 4.00 22.92 12.00 PI_\$CLB 12.00 PI 12.00 10.20 12.00 PI_\$CLB 12.00 PI 1.32 0.00 4.00 UN 4.00 UN 87.00	Weight Qty U/M Qty U/M Price 0.00 1.00 UN 1.00 UN 4.00 142.500 22.92 12.00 PI_\$CLB 12.00 PI 12.00 2.960 10.20 12.00 PI_\$CLB 12.00 PI 1.32 0.00 4.00 UN 4.00 UN 87.00

Total Weight (Lbs)

33.12

Important

Billed to

Shipped to

, Ontario,

DART AEROSPACE LTD

1270, ABERDEEN ST.

HAWKESBURY, Ontario, K6A 1K7

Att: CHANTAL LAVOIE Tél.: 613-632-5200

This offer is based on the availability, the price of material can change without notice in function of the evolution of the current market prices. This offer is subject to credit approval.

Sub-total

973.29

TVH-13 · · 126.53

Approuved and Accepted by :

Date :

Total (\$CAD)

1 099.82

MATERIAL RECEIPT INSPECTION FORM

MATERIAL:	8 BO. N U 8 ZI	DOOX	0.500	PO / BATC	н NO.: <u>04</u>	083 Jo194	13
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	12) 12)	<i>**</i>	_ TH	HICKNESS ORDI HICKNESS RECE HEET SIZE ORDI EET SIZE RECE	ERED: N	500 11A	
DESCRIPTION (NCR Check Y/N)			COMMEN	ITS		
SURFACE DAMAGE	Y (N)					,	
	Y) N						
CORROSION	V (N)						
CORRECT GRAIN DIRECTION /	YN						
CORRECT MATERIAL PER M-DRAWING		150	C - do	+ toolin	1	A	
CORRECT THICKNESS	N	CASE	JOE OCH	T 4301.0	- Daly	15	
PHOTO REQUIRED	KIN						
CORRECT REF # TO LINK CERT		leat.	12420	97			
	N	my.	7770	70			
CORRECT M# ON THE MATERIAL	N						
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	R						
DOES THIS REQUIRE AN	-						
	M						
	()						
CUT SAMPLE PIECE (OF MATE	RIAI A	ND PREFOR	MA HARDNE	SS CHECK		
	RECO	RD RES	ULTS BELC	WY TIVIDIAE	SS CHECK.		
		RC I	HRB	DUR A	DUBB	LWEDOTED	
TYPE OF MATERIAL			TITO	DONA	DUR D	WEBSTER	
SIZE OF TEST SAMPLE	-						
HARDNESS / DUROMETER READING				+		-	
		cated in	the Quality Off	lina			
	100101310	cateu III	me Quality On	ice			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:	DAS D 18:06:14	SIGNED OFF BY:
DATE:	9-89 JUN 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in





DESIGN	DRAWN BY	DART AEROSF HAWKESBURY, ONTAF	PACE LTD
CHECKED	APPROVED	DRAWING NO. MICIO-B	REV A
DATE 0(, 12	06	AIST 1010-1025 BAR	SCALE NTS
A	01.12.06	NEW ISSUE	

PURCHASE MATERIAL: AIST 1010-1025 OR ASTM A36 /A366 /A569 /A570 OR CSA G40-21, 38W/44W/50W/60W/70W

PART NUMBER:

MIDIO-BIT. TIT X WW. WWW WHERE T.TTT = THICKNESS (IN IMPRIES) MY. WMW WIDTH (IN INTHES)

THICK WIDTH

EG. 0.75" x 250" BAR = M1010-B0.750 x 02.500



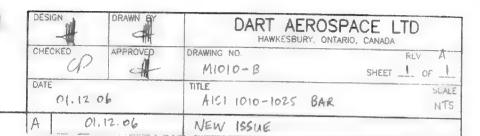
MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MIOI DATE:					PO / BATCH	INO.: <u>040</u>	082/507
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	7	21		THICK SHEE		-//	
DESCRIPTION	(CI	CR neck (N)			COMMEN.	TS	
SURFACE DAMAGE	Y.	N					
CORRECT FINISH	Y	N					
CORROSION	Y	N					
CORRECT GRAIN DIRECTION	(X)	N					
CORRECT MATERIAL PER M-DRAWING	(Y)	N	use for da	et to	olin onl	T PD	
CORRECT THICKNESS	Y	N			1	1	
PHOTO REQUIRED	Y	(N')					
CORRECT REF # TO LINK CERT	(X)	N	Hest # 4	0080)		
CORRECT MATERIAL IDENTFICATION	Y	N	. 11)				
CORRECT M# ON THE MATERIAL	(Y)	N					
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)					
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	2		•			
CUT SAMPLE PIECE			TERIAL AND PRE ORD RESULTS B		A HARDNE	SS CHECK.	
			HRC HR		DUR A	DUR D	WEBSTER
TYPE OF MATERIAL							. ALBOTEK
SIZE OF TEST SAMPLE							
HARDNESS / DUROMETER READIN	VG						
	te	sters	located in the Quali	tv Office			

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY:_	11 D 18.06.14	SIGNED OFF BY:
DATE:	9-83UN 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



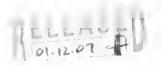


AISI 1010-1025 OR ASTM A36 /A366 /ASG9 /AS70 OR CSA G40-21, 38W/44W/SOW/60W/70W PURCHASE MATERIAL:

PART NUMBER:

MIDIO-BIT. TIT X WW. WWW T.TTT = THICKNESS (IN IMHES) WHERE UN. WWW WIDTH (IN INTHES) HTOTH

EG. 0.75" x 250" BAR = M1010-B0.750 x 02.500



MATERIAL RECEIPT INSPECTION FORM

MATERIAL: DATE:	1018R4.250 JUN 0 8 2018	PO/BATCH NO.: 040082/507941
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED: QUANTITY REJECTED:	Yes y'	THICKNESS ORDERED: 4,250 THICKNESS RECEIVED: 4,250 SHEET SIZE ORDERED: N/A SHEET SIZE RECEIVED: N/A
	NCR	

DESCRIPTION	(Ch	CR leck (N)	COMMENTS
SURFACE DAMAGE	Y.	(N)	
CORRECT FINISH	Y	M	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	W	N	A
CORRECT MATERIAL PER M-DRAWING	(4)	N	Astm HIOX
CORRECT THICKNESS	(Y)	N	701
PHOTO REQUIRED	Y	N	
CORRECT REF # TO LINK CERT	Y	N	Hext H. 8171649
CORRECT MATERIAL IDENTFICATION	0	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	R	
DOES THIS REQUIRE AN EXTRUSION REPORT	Υ	N)	

CUT SAMPLE PIECE OF		ND PREFOR		SS CHECK.	
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: DAS	SIGNED OFF BY:
DATE: 9-8-UN 0 8 2018	DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 1018-1025 ROUND BAR
SPECIFICATION: MIL-S-7097 OR NSTM A108
PART NUMBER: M1018-R|D.DDD| WHERE D.DDD = D

M1018-R D.DDD WHERE D.DDD = DIAMETER IN INCHES D.D. BAR = M1018-R0 875

PER ASTM A108 AS FOLLOWS:

TOLERANCE

TOLERANCES:

SIZE

UP TO 1.5" INCL.

OVER 1.5" TO 2.5" INCL.

OVER 2.5" TO 4.0" INCL.

OVER 4.0" TO 6.0" INCL.

OVER 6.0" TO 8.0" INCL.

+0.000/-0.005

OVER 6.0" TO 8.0" INCL.

+0.000/-0.006

DE LEASED

MFG. APPR. CHECKED DRAWN APPROVED DESIGN REFORMAT, ADD ASTM A108, ADD TOLERANCES NEW ISSUE 12.09.05 DS DRAWING NO.
M1018-R DESCRIPTION 1018-1025 ROUND BAR

COPYRIGHT © 2001 BY DART AEROSPACE LTD

THE SCHOOL OF THE ALTHOUGH OF A STATE OF THE CONTROL OF THE CONTR DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA DS CP REV. B SHEET 1 OF 1 SCALE NTS 12.09 05 01.06.12 DATE

 \cap

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: DATE:	01-B- UN 082	0 250 x	13200	PO / BATCH	1 NO. 046	C83 50			
MATERIAL CERT REC'D: QUANTITY RECEIVED: QUANTITY INSPECTED:	21		THICKNESS ORDERED: 0,250						
QUANTITY REJECTED:	9			EET SIZE ORDE		14			
DESCRIPTION	NCR (Check Y/N)			COMMEN	TS				
SURFACE DAMAGE	YIN								
CORRECT FINISH	(Y) N	1							
CORROSION	YN								
CORRECT GRAIN DIRECTION	N								
CORRECT MATERIAL PER M-DRAWING	(Y) N	0-1							
CORRECT THICKNESS	Y) N								
PHOTO REQUIRED	Y(N)								
CORRECT REF # TO LINK CERT	(Y) N	Hest	+ Julia	ac					
CORRECT MATERIAL IDENTFICATION	(Y) N	HOW H	17/17	40					
CORRECT M# ON THE MATERIAL	M N								
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	YN								
DOES THIS REQUIRE AN EXTRUSION REPORT	YN								
CUT SAMPLE PIECE	OE MA	TEDIAL AN	ID DBEEOE	DAA A LIADDNE	00 0115014				
OOT OF WILL FREE			JLTS BELO		SS UMEUK.				
		HRC	HRB	DUR A	DUR D	WEBSTER			
TYPE OF MATERIAL		,0	1110	DONA	DOND	WEBSIER			
SIZE OF TEST SAMPLE									
HARDNESS / DUROMETER READIN	VG								
		located in the	he Quality Offi	ice					
				-					

QC 18 INSPECTION ENGINEERING SIGNOFF (if required)

INSPECTED BY:

DATE: 9-89 JUN 0 8 2018

DATE:

DATE:

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

APPROVED WW AISI 01 TOOL STEEL BAR ВУ NA MT-01-B 17.08.09 DATE DESCRIPTION NEW ISSUE ELN 11 - LAB TOLERANCES PER MANUFACTURER SPECIFICATIONS REV. MT-O1-B-[H.HHH]x[W.WWW] WHERE "H.HHH" = HEIGHT IN INCHES WHERE "W.WWW" = WIDTH IN INCHES EG. 4"x6" BAR = MT-O1-8-4.000x6.000 SPECIFICATION CONTROL DRAWING DIN 1.2510 or B.S. BQ 1 of SAE J437 or SAE J438 or UNS T31501 or ASTM A681 AISI 01 TOOL STEEL BAR PURCHASE MATERIAL: SPECIFICATION: PART NUMBER:

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U

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⋖



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

Tino.: 946480211 Fax: 946480128

Email: calpradera@calibradospradera.es

www.calibradospradera.es

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47192

ALBARAN 47192 Delivery Note Nr.

CLUENTE CUSTOMER LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

			%	%	%	%	%	. %	%	%	%	%
			С	Cr	Ca	Mn	Mo	· Ni	P	Pb	S	Si
31,75 0,00	138964	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0.000	0.009	0,165
31,75 0,00	139049	41378 G	0,170	0,050	0,146	0,630	0.011	0.084	0,009	0,000	0.009	0,165
9,53 0,00	202340	41113 AA*	0,079	0,027	0,016	1,097	0,004	0,019	0.056	0.276	0,279	0,022
25,40 0,00	202179	40463 S	0,073	0,058	0,012	1,090	0,005	0,020	0.068	0.252	0,302	0,005
15,88 0,00	916391	1 40619 AA	0,150	0,000	0,000	0,775	0,000	0,000	0,013	0.000	0.027	0,157
19,05 0,00	913992	40080 S	0,165	0,000	0,000	0,780	0,000	0,000	0,009	0,000	0.024	0.274
25,40 0,00	916469	41198 G	0,160	0,000	0,000	0,630	0,000	0,000	0,007	0,000	0,010	0,136
31,75 0,00	139168	41378 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0.165

Características mecánicas / Mechanical properties

MEDIDA Measurement	OF	COLADA Casi Nr.	Resistencia Tens. strenght Nhmn2	Lim.elistico Yield point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness HB	Estricción %
11,11	908989	29708 G	628,75	591,11	16,94	190,00	62,76
25,40	916007	40655 G	586,71	565,37	21,86	176,00	57,70
	916018	40545 G	586,33	574,71	19,72	176,00	58,62
	916469	41198 G	614,68	599,18	22,76	180,00	56,57
25,40	202179	40463 S	521,37	485,79	25,34	153,00	49,11
22,23	915964	40717 G	625,03	599,51	24,20	185,00	55,97
31,75	138699	41378 G	586,30	560,30	24,30	176,00	58,56
23,81	915312	37291 A	619,20	609,49	22,34	185,00	55,46
15,88	915991	40639 S	585,04	539,10	15,16	180,00	56,61
31,75	138956	41378 G	586,30	560,30	24,30	176,00	58,56
19,05	915992	40080 S	530,32	510,28	34,50	162,00	62,99
15,88	916391	40619 AA	579,16	547,66	19,70	169,00	-58,82
28,58	916104	40910 G	568,80	546,30	32,76	169,00	59.00
31,75	138948	41378 G	586,30	560,30	24,30	176,00	58,56
9,53	915990	40828 G	783,23	761,48	10,92	247,00	0.00
31,75	138964	41378 G	586,30	560,30	24,30	176,00	58,56
31,75	139049	41378 G	586,30	560,30	24,30	176,00	58,56
9,53	202340	41113 AA*	602,60	585,60	14,04	180,00	51,75
25,40	202179	40463 S	521,37	485,79	25,34	153,00	49,11
15,88	916391	40619 AA	579,16	547,66	19,70	169,00	58,82
19,05	(915992)	40080 5	530,32	510,28	34,50	162,00	62,99
25,40	916469	41198 G	614,68	599,18	22,76	180,00	56,57
31,75	139168	41378 G	586,30	560.30	24,30	176,00	58,56

Calidad Superfielal



ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

ALBARAN 47192

47192 CLIENTE CUSTOMER

N° CERTIFICADO / CERTIFICATE NR.: 47192 LES ACIERS TRANSBEC (1997) LTÉE

Delivery Note Nr.

Norma : EN 10277 Productos California

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

DESCRIPCIÓN Description	OF	Clase - EN 10277-1
1018 RED. ESTIRADO 11,11 (7/16")	908989	2
1018 RED. ESTIRADO 25,40 (1")	916007	2
1018 RED. ESTIRADO 25,40 (1")	916018	. 2
1018 RED. ESTIRADO 25,40 (1")	916469	2
12L14 HEX. ESTIRADO 25,40 (1")	202179	1
1018 RED. ESTIRADO 22,23 (7/8")	915964	. 2
1018 RED. ESTIRADO 31,75 (1 1/4")	138699	3
1018 RED. ESTIRADO 23,81 (15/16")	.915312	. 2
1018 RED. ESTIRADO 31,75 (1 1/4")	138956	3
1018 RED. ESTIRADO 15,88 (5/8")	916391	2
1018 RED. ESTIRADO 28,58 (1 1/8")	916104	2
1018 RED. ESTIRADO 31,75 (1 1/4")	138948	. 3
1018 RED. ESTIRADO 31,75 (1 1/4")	138964	. 3
1018 RED. ESTIRADO 31,75 (1 1/4")	139049	. 3
12L14 RED. ESTIRADO 9,53 (3/8")	202340	3
12L14 HEX. ESTIRADO 25,40 (1")	202179	1
1018 RED. ESTIRADO 15,88 (5/8")	916391	. 2
1018 RED. ESTIRADO 25,40 (1")	916469	. 2
1018 RED. ESTIRADO 31,75 (1 1/4")	139168	. 3

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumpla con las especificaciones del pudido.

QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 08/05/2017

Firmado: Susma Fernández. Directora de Calidad



NO 90012008

92875



16951N

	CERT	IFICATE	OF COMPLI	ANCE/C	ERTIFICAT	DE CONF	ORMITÉ	16	
io, de commen			T/CUSTOMER			No. d'expéd	tion/packing slip #	DATE	
lo. de commen		CLIEN	T/CUSTOMER			No. d'améd D32230	ition/packing slip #	JAN-30-14	
10. DU MATÉRIE 2013-1550		C1018) p.//		INISHED / F			8171649	
FORME/SHAPE		DIMENSION (In			SPÉCIFICAT ASTM A		4	
PAYS D'OR	IGINE:	USA							
		ANA	LYSE CHINIC	DUE / CHE	MICAL COM	POSITION			
	Carbon (C)		Silicon (Si)	Mangane	se (Mn)	Phosphorus	(۲) و	
min/max	0.150	0,200	0.100	0.200	0.200 0.500		0.040	040	
actuel (%)	0.170		0.200		0.690		0.007		
	Sulfur (S)		Chromium	(Cr)	Nickel (N	i)	Molybdenu	m (Mo)	
min/mesc	0.050		0.000	0.200	0.000	0.250	0.000	0.060	
actuel (%)	0.028		0.070		0.060		0.020		
	Copper (Co	١)	Vanadium	(V)	Aluminiu	m (AI)	Tungsten (w)	
min/max:	0.000	0.350	-	-	-	Man		-	
actuel (%)	0.080		0.001		0.022		0.000		

	PROPRIÉTÉS MÉCANI	QUES / MECHANICAL F	PROPERTIES	
Tolérance diamètre / diameter	Résistance à la traction /Tons	il Alongement / Elongetion (%)	Réduction surface / ratio	Surface HD/duretó
0	, PSI		0.0	

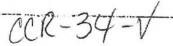
Aucune réparation evécutée par soudure durant la fabrication de ce produit. Par la présente nous attestens que les résultats cl-haut mentionnés ont été vérifiés et sont conformes aux spécifications.

No weld repairs performed during the manufacturing of this product. We hereby certify that the above results have been verified and conform to the above mentionned specifications.

Keith BALL



" plifi





ARANA Y LUPARDO, 2

48490 UGAO-MIRAVALLES/VIZCAYA (SPAIN)

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TNA-1595 15/8/17 SPAIN) 49/6

CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

Nº CERTIFICADO / CERTIFICATE NR.: 47192

ALBARAN Delivery Note Nr.

47192

CLIENTE CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTM A 108

e le le Couler		EGE			Section 2
PAJ-47267	1018 RED. ESTIRADO 11,11 (7/16")	832	0.061	000000	Section 1
CA-46387	1018 RED. ESTIRADO 25,40 (1")	732	- 0,051	908989	11,11
CA-46387	1018 RED. ESTIRADO 25,40 (1")	548	-7	916007	25,40
CA-46387	1018 RED. ESTIRADO 25,40 (1")	998	- 0,051	916018	25,40
MJP-47245	12L14 HEX. ESTIRADO 25,40 (1")	976	- 0,051	916469	25,40
OU-47424	1018 RED. ESTIRADO 22,23 (7/8") RCR 79	960	- 0,076	202179	25,40
AQM-46896	1018 RED. ESTIRADO 31,75 (11/4")	-	- 0,051	915964	22,23
OU-47436	1018 RED. ESTIRADO 23,81 (15/16*)	990	-0,051	138699	31,75
VI-47383	1018 CUA. ESTIRADO 15,88 (5/8")	820	- 0,051	915312	23,81
PAJ-47709		996	-0,110	915991	15,88
PAR-47756	21,15(104)	958	- 0,051	138956	31,75
PAR-47756	1018 CUA. ESTIRADO 19,05 (3/4")	1.000	- 0,130	915992	19,05
PAR-47756	13,00(30)	. 1.014	- 0,051	916391	15,88
	1018 RED. ESTIRADO 28,58 (1 1/8")	1.006	- 0,051	916104	28,58
MJP-47531	1018 RED. ESTIRADO 31,75 (1 1/4")	1.922	- 0,051	138948	31,75
PAJ-47709	1018 CUA. ESTIRADO 9,53 (3/8")	982	- 0,090	915990	9,53
PAR-47756	1018 RED. ESTIRADO 31,75 (1 1/4")	924	-0,051	138964	31,75
CA-46398	1018 RED. ESTIRADO 31,75 (1 1/4")	960	- 0.051	139049	31,75
PAR-47851	12L14 RED. ESTIRADO 9,53 (3/8*)	. 992	- 0,051	202340	9.53
PAJ-47738	12L14 HEX. ESTIRADO 25,40 (1")	. 990	- 0.076	202179	25,40
MJP-47861	1018 RED. ESTIRADO 15,88 (5/8")	2.020	- 0,051	916391	
OU-47812	1018 CUAL ESTERADO 19,05 (3/4") CCK 34	1.002	-0.130	915992	15,88
OU-47812	1018 RED. ESTIRADO 25,40 (1") ROR	1.202			19,05
VI-46700	1018 RED. ESTIRADO 31,75 (1 1/4")	1.854	-0,051	916469	25,40
		1.834	- 0,051	139168	31,75

Composición química de la colada / Chemical Analysis of Heat

	DIDA renent	OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Ma	% Mo	% Ni	% P	%	%	%
11,11	0,00	908989	29708 G	0.150	0,000	0,000	0,600	0,000			Pb	S	Si
25,40	0,00	916007	40655 G	0.170	0.106	0,231	0,610	0,000	0,000	0,014	0,000	0,025	0,225
		916018	40545 G	0.170	0,106	0,231	0,610		.0,111	0,011	0,000	0,016	0,143
	1	916469	41198 G	0,160	0,000	0.000	0,630	0,024	0,111	0,011	0,000	0,016	0,14
25,40	0.00	202179	40463 S	0,073	0.058	0,012	-	0,000	0,000	0,007	0,000	0,010	0,134
22,23	0,00	915964	40717 G	0,160	0.000	0,000	1,090	0,005	0,020	0,068	0,252	0,302	0,00
31,75	0.00	138699	41378 G	0,170	0,050		0,640	0,000	0,000	0,014	0,000	0,008	0,13
23,81	0,00	915312	37291 A	0,162	0.000	0,146	0,630	110,0	0,084	0,009	0,000	0,009	0,16
15,88	0.00	915991	40639 S	0.165		0,000	0,705	0,000	0,000	0,013	0,000	0,025	0,180
31.75	0.00	138956	41378 G	0.170	0,000	0,000	0,763	0,000	0,000	0,015	0,000	0,021	0,28
19.05	0.00	915992	40080 S	0.165	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,16
15,88	0,00	916391	40619 AA	0,150	0,000	0,000	0,780	0,000	0,000	0,009	0,000	0,024	0,274
28.58	0.00	916104	40910 G		0,000	0,000	0,775	0,000	0,000	0,013	0,000	0,027	0,15
31,75	0.00	138948	41378 G	0,155	0,000	0,000	0,635	0,000	0,000	0,013	0,000	0,016	0,137
9,53	0.00	915990	40828 G	0,170	0,050	0,146	0,630	0,011	0,084	0,009	0,000	0,009	0,16
7-01	-,55 1	7.2770	40020 G	0,140	0,000	0,198	0,760	0,000	0.000	0.016	0.000	0.033	0.24



TRA -2537

ARANA Y LUPARDO, 2

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CERTIFICADO DE CALIDAD/OUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

ALBARAN 49249 N° CERTIFICADO / CERTIFICATE NR.: 49249

CLIENTE CUSTOMER

LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Delivery Note Nr.

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

PRODUCTO SOLICITADO / PRODUCT ACCORDING ASTMA 108

Purchas Ori				0	
PAJ-48097	1018 CUA. ESTIRADO 12,70 (1/2")		Control of the Contro		100000000000000000000000000000000000000
OU-48310	1018 CUA ESTIRADO 12,70 (1/2") (CR / 2)	994	- 0,110	916898	12,70
OU-48310	1010	988	- 0,110	916898	12,70
PAR-48569		1.002	- 0,051	140429	7.94
PAJ-48393	12L14 RED. ESTIRADO 15,88 (5/8")	994	- 0,051	140560	15,88
	1018 CUA. ESTIRADO 12,70 (1/2")	1.972	-0,110	916898	12,70
PAR-48569	1018 CUA. ESTIRADO 12,70 (1/2")	990	-0.110	916898	
SM-48509	1018 CUA. ESTIRADO 12,70 (1/2")	986			12,70
PAR-48735	1018 CUA. ESTIRADO 12,70 (1/2")		- 0,110	916898	12,70
PAR-48735	12L14 RED. ESTIRADO 14,29 (9/16")	1.300	- 0,110	916898	12,70
PAR-48735	12L14 RED. ESTIRADO 31,75 (1 1/4")	988	- 0,051	202401	14,29
PAR-48735	122 14 PTD FORTH 120 31,75 (1 1/4")	842	- 0,051	202514	31,75
	12L14 RED. ESTIRADO 31,75 (1 1/4")	1.000	- 0.051	202539	31,75
MJP-48737	12L14 HEX. ESTIRADO 25,40 (1")	990	- 0,076	916873	25,40

Composición química de la colada / Chemical Analysis of Heat

MEDIDA Measurement		OF	COLADA Cast Nr.	% C	% Cr	% Cu	% Mn	% Mo	% N	%	%	%	%	- %
12,70	0.00	916898	42008	0.160	0.000	-				N	P	Pb	S	SI
12,70	0.00	916898	(42008)	0.160	-	0,276	0,782	0,000	0,000	0,000	0,009	0.000	0,008	0.20
7.94	0.00	140429	42010 GM		0,000	0,276	0,782	0,000	0,000	0,000	0.009	0.000	0,008	0.20
5.88	0.00	140560		0,160	0,000	0,290	0,710	0,000	0,008	0,000	0,020	0.000	0.016	0,18
2.70	0.00		41826 G	0,066	0,028	0,085	1,125	0,010	0,000	0,033	0.044	0.260	0,304	-
		916898	42008	0,160	0,000	0,276	0,782	0,000	0.000	0,000	0,009	0,000		0,01
2,70	0,00	916898	42008	0,160	0,000	0.276	0,782	0.000	0,000	0,000			0,008	0,20
2,70	0,00	916898	42008	0,160	0.000	0,276	0,782	0,000	0.000		0,009	0,000	0,008	0,20
2,70	0,00	916898	42008	0.160	0.000	0,276	0,782			0,000	0,009	0,000	0,008	0,20
4,29	0,00	202401	41319 OC	0.080	0,016	0,010		0,000	0,000	0,000	0,009	0,000	0,008	0.20
1,75	0.00	202514	40991 W	0.070	0,140		1,020	0,002	0,000	0,014	0,058	0,280	0,280	0,00
		202539	41904 AG	0,080		0,270	1,110	0,030	0,000	0,120	0,052	0.210	0.313	0.02
5,40	0.00	916873	40463 S		0,094	0,016	1,100	0,012	0,000	0,026	0,068	0,320	0.300	0,00
- 1	0,00	210073	40403 5	0,073	0,058	0,012	1,090	0,005	0,000	0.020	0.068	0,252	0,302	0.00

Características mecánicas / Mechanical properties



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CERTIFICADO DE CALIDAD/QUALITY REPORT

De acuerdo a /Made according to:

EN 10204/DIN 50049

3.1

ALBARAN 49249
Delivery Note Nr.

N° CERTIFICADO / CERTIFICATE NR.: 49249
CLIENTE LES ACIERS TRANSBEC (1997) LTÉE

Norma: EN 10277

Productos Calibrados de acero. Condiciones técnicas de suministro.

Norm:

Bright steel products. Technical delivery conditions.

CUSTOMER

MEDIDA Measurement	OF	COLADA Cast Nr.	Resistencia Tens. strenght N/mm2	Lim.elástico Yield point 0,2% N/mm2	Alargamiento Elongation Lo=50 mm.	Dureza HB Hardness	Estricción %
12,70	916898	42008	628,74	580,60	14,70	HB	-
12,70	916898	(42008)	628,74	580,60		190,00	58,11
7,94	140429	42010 GM		-	14,70	190,00	58,11
15,88			688,00	633,40	10,22	200,00	61,60
	140560	41826 G	588,93	579,26	11,28	175,00	41,65
12,70	916898	42008	628,74	580,60	14,70	190,00	
12,70	916898	42008	628,74	580,60	14,70		58,11
12,70	916898	42008	628,74	580,60		190,00	58,11
12,70	916898	42008	-		14,70	190,00	58,11
14,29			628,74	580,60	14,70	190,00	58,11
	202401	41319 OC	576,87	562,77	13,24	165,00	55,62
31,75	202514	40991 W	545,20	529,60	24,08	200,00	
	202539	41904 AG	561,90	548,20			40,07
25,40	916873	40463 S	521,37		28,26	180,00	47,30
		10103 3	321,37	485,79	25,34	153,00	49,11

Calidad Superficial

DESCRIPCIÓN Description	OF	Clase EN 10277-1	
1018 RED. ESTIRADO 7,94 (5/16")	140429	2	
12L14 RED. ESTIRADO 15,88 (5/8")	140560	2	
12L14 RED. ESTIRADO 14,29 (9/16")	202401	3	
12L14 RED. ESTIRADO 31,75 (1 1/4")	202514	3 ,	
12L14 RED. ESTIRADO 31,75 (1 1/4")	202539	- 3	
12L14 HEX. ESTTRADO 25,40 (1")	916873	3	

Observaciones: BARRAS DE ACERO ESTIRADAS EN FRIO, SIN ALEAR

DEPARTAMENTO DE CALIDAD: Certifica que el mencionado producto cumple con las especificaciones del pedido. QUALITY DEPARTMENT: Certify that the product fulfils the order specifications.

Fecha/Date: 19/10/2017

Firmado: Susana Fernández Directora de Calidad





Sistema de Gestión ISO 9001:2008

D' 110000000

92875

(Material Verification)

LETTRE DE CONFORMITÉ CERTIFICATE OF COMPLIANCE



16948N

ACIER OUELLETTE INC CUSTOMER / CLIENT: Customer PO# / AC00016948 Commande Client: Shipping / Date / d'envoi: 31/05/2018 Order # / Commande # : L43852-01 COUNTRY OF ORIGIN: U.S.A. MATERIAL / MATÉRIEL : Dimension: **TOUS LES GRANDEURS** Heat # / No Fabrication : **TYPIQUE** Lot # / No de lot : Specifications Spécifications FGS (FLAT GROUND STOCK) / PLATS RECTIFIES DE PRECISION Chemical / Analyse / Chimique : С 0.900 Cu Mn 1.200 Cb Ta Su ٧ 0.200 Si 0.300 Co Cr 0.500 W 0.500 Mo Autre: Ni Mechanical / Propriétés / Mécaniques : Yield Strength Elasticité: Elongation: Tensile Strength Reduction ratio Résistance traction : Corroyage: Nous certifions que les résultats mentionnés ci-hauts ont été vérifiés et rencontrent les critères voulus. We hereby certify that the above results have been verified and conform to the above mentioned specifications. Date: 28/06/2017

Keith BALL (Branch Manager)